

Oct. 26, 1891.

Mr. Wm. H. Knight,

Dear Sir,

In reading the preface to your interesting list of observatories in the United States, in the October Messenger, I notice that the list is preliminary to a more complete catalogue. I presume therefore that you would be glad to have any additions or corrections that would aid you in your purpose, and send you a few which ^{are} within my personal knowledge.

Besides the instruments which you have mentioned as part of the equipment of this observatory, we have a 4-inch transit by Troughton & Simms of London, and a 17-inch heliostat, mirror by Brashear and mounting by Hilger.

Mr. Henry Berger, a resident of Allegheny has just built a private observatory with 6 $\frac{1}{4}$ -inch equatorial, objective by Brashear, mounting by Laegmüller of Washington.

At the Lick Observatory, where I was formerly an astronomer, Mr. Charles B. Hill resigned a year ago or more. Dr. Henry Crew is astronomer,

appointed to take my place.

The 20-inch "refractor" stated to belong to the Astrophysical Observatory of the Smithsonian Institution must refer to the 20-inch siderostat by Grubb.

These are all the comments I have to make, and I trust you will believe that they are made in the spirit of the golden rule!

Yours very truly,

J. E. Keeler.

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Lick Observatory

(Lick Astronomical Department of the University of California)

Mount Hamilton, Cal.

June 6 1900

Mr. Wm. H. Knight,
27 Bryson Block,
Los Angeles, Cal.

Dear Sir,

In the photographic observations to which you refer in your letter of June 2, the combination of color-screen and plate which was used gave nearly the effect aimed at; that is, the various species groups emitted by the nebula were photographed with nearly the same relative intensities as those perceived by the eye. But you are right in thinking that the difference between a photograph taken in the ordinary manner, and a photograph taken with color-screen and orthochromatic plate, could be still further accentuated. It could be done by suppressing the H β line altogether, in the latter case, by using a yellow color-screen; but the photograph would not then correspond so nearly with the visual image.

The ^{relative} sensitiveness of the Cramer "isochromatic" plate for different wave-lengths is about what it should be for these experiments, but the absolute sensitiveness is small, and a quicker plate having the same relative sensitiveness for blue, green & yellow would be much better.

I take pleasure in sending you a few reprints.

Yours very truly, James E. Keeler

University of California,

MOUNT HAMILTON.

July 21, 1890

Mr. Wm. H. Fright,
1012 W. Eighth St.,
Los Angeles, Cal.

Dear Sir,

I beg to acknowledge the receipt of your
two letters, enclosing money order for \$10 in pay-
ment of membership dues in the A.S.P. for
yourself and Mr. Hooker. We are glad to
welcome you as members. The money has
been forwarded to the Treasurer in San Fran-
cisco.

Whenever I visit Los Angeles, I shall be
very glad to lecture before your Society. The trip
is a little too extensive to make for that spec-
ial purpose, but I hope to see the southern
part of the state some time when I can
get away from my duties here.

Yours very truly
James E. Hooker

1872

July 21

Mr. Wm. W. Wright
1015 N. 1st St.
St. Louis, Mo.

Dear Sir:
I have been looking for the receipt of your
letter, enclosing money order for \$10 in full
of my subscription to the N.Y.C. for
yourself and Mr. Thomas. It is now
before me as a member. The money has
been forwarded to the Treasurer.

When I visit St. Louis I shall be
in a position to see you about the
little to examine books for the
purpose, but I shall have the
letter of the State some time ago.

Yours very truly
James C. Smith